

$\mathcal{L}^2(\mathbb{R}^d)$ and $\mathcal{L}^2(\mathbb{R}^d)$ are the spaces of square integrable functions on \mathbb{R}^d and \mathbb{R}^d respectively. $\mathcal{L}^2(\mathbb{R}^d)$ is the space of square integrable functions on \mathbb{R}^d and $\mathcal{L}^2(\mathbb{R}^d)$ is the space of square integrable functions on \mathbb{R}^d .

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